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EUROPEAN PATENT APPLICATION

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54 Drug-containing protein-bonded liposome.

57 A drug-containing protein-bonded liposome comprising a liposome containing a drug and having maleimide residues on its surface, and a protein and residues of a compound having a polyalkylene glycol moiety, bonded via respective thiol groups to the maleimide residues.

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Application Number

which under Rule 45 of the European Patent Convention EP 92 10 8527
shall be considered, for the purposes of subsequent
proceedings, as the European search report

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (In C.L.S.)
E	EP-A-0 520 499 (MITSUBISHI KASEI CO.) 30 December 1992 * page 4, line 20 - line 45; figure 5 * * page 4, line 50 - line 51; claim 19 * ---	1-7	A61K47/48 A61K9/127
Y,X	WO-A-90 07924 (MICRO-VESICULAR SYSTEMS, INC) 26 July 1990 * page 4, line 3 - line 30 * * page 5, line 16 - line 32 * * page 15, line 11 - line 18; claims 1,8 * ---	1-7	
P,A	EP-A-0 448 126 (CALIFORNIA INSTITUTE OF TECHNOLOGY) 25 September 1991 * page 7, line 58 - line 5 * * page 16, line 31 - line 45; claims 1,2,11 * ---	1-7	
A	WO-A-91 05546 (LIPOSOME TECHNOLOGY INC.) 2 May 1991 * page 36, paragraph B; claims 1,2,4-6,8 * --- -/--	1-7	
			TECHNICAL FIELDS SEARCHED (In C.L.S.)
			A61K
INCOMPLETE SEARCH			
<p>The Search Division considers that the present European patent application does not comply with the provisions of the European Patent Convention to such an extent that it is not possible to carry out a meaningful search into the state of the art on the basis of some of the claims</p> <p>Claims searched completely : Claims searched incompletely : Claims not searched : Reason for the limitation of the search:</p> <p>see sheet C</p>			
Place of search		Date of completion of the search	Examiner
THE HAGUE		23 November 1993	BERTE, M
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons a : member of the same patent family, corresponding document	

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PARTIAL EUROPEAN SEARCH REPORT

Application Number
EP 92 10 8527

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. 8)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claims	
Y	JOURNAL OF BIOLOGICAL CHEMISTRY vol. 257, no. 1, 10 January 1982 . BALTIMORE, MD US pages 286 - 288 F. J. MARTIN 'IRREVERSIBLE COUPLING OF IMMUNOGLOBULIN FRAGMENTS TO PREFORMED VESICLES.' *see abstract*	1-7	
P, Y	CHEMICAL ABSTRACTS, vol. 115, no. 10, 9 September 1991, Columbus, Ohio, US; abstract no. 99068f, * abstract * & BIOCHIM. BIOPHYS. ACTA vol. 1062, no. 2, 1991 pages 142 - 148 A. L. KLIBANOV 'ACTIVITY OF AMPHIPATIC POLY(ETHYLENE GLYCOL) 5000 TO PROLONG THE CIRCULATION TIME OF LIPOSOMES DEPENDS ON THE LIPOSOME SIZE AND IS UNFAVORABLE FOR IMMUNOLIPOSOME BINDING TO TARGET.'	1-7	TECHNICAL FIELDS SEARCHED (Int. Cl. 8)
Y	WD-A-83 02069 (THE REGENTS OF THE UNIVERSITY OF CALIFORNIA (BERKELEY)) 23 June 1983 * page 1, line 3 - line 12 * * page 20, line 10 - line 30 * * page 27, line 9 - line 20 * * page 29, line 1 - line 8; claims *	1-7	



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INCOMPLETE SEARCH

Claims searched completely : 2,7
Claims searched incompletely : 1,3-6

In view of the large number of compounds, which are defined by the term "proteinbonded liposome of claim 1, the search had to be restricted for economic reasons. The search was limited to the compounds for which pharmacological data was given and/or the compounds mentioned in the claims, and to the general idea underlying the application (see guidelines, Part B, Chapter III, paragraph 3.6).